REPORT

NMTBA
The Association For Manufacturing Technology
Direct Dial: (703)827-5260

STATISTICAL

No. 86-90 June 27, 1990

U.S. FOREIGN TRADE IN MANUFACTURING TECHNOLOGY – APRIL 1990

(Millions of U.S. Dollars)

	Apr. 1990	Mar. 1990	Average Jan.-Mar.	Year to Date '90	Year to Date '89	% Change YTD '89-'90
METAL CUTTING MACHINE TOOLS						
Exports	$ 43.6	$ 60.4	$ 57.7	$216.8	$147.5	47.0%
Imports	$155.0	$129.8	$141.9	$580.7	$596.4	(2.6%)
Balance	($111.4)	($ 69.4)	($ 84.2)	($363.9)	($448.9)	(18.9%)
METAL FORMING MACHINE TOOLS						
Exports	$ 41.9	$ 40.1	$ 38.8	$158.2	$162.8	(2.8%)
Imports	$ 39.4	$ 38.5	$ 37.6	$152.1	$193.7	(21.5%)
Balance	$ 2.5	$ 1.6	($ 1.2)	$ 6.1	($ 30.9)	N.M.
MACHINE TOOL TOTAL						
Exports	$ 85.5	$100.5	$ 96.5	$375.0	$310.3	20.9%
Imports	$194.4	$168.3	$179.5	$732.9	$790.1	(7.2%)
Balance	($108.9)	($ 67.8)	($ 83.0)	($357.9)	($479.8)	(25.4%)
NUMERICALLY CONTROLLED MACHINE TOOLS						
Exports	$ 28.7	$ 35.0	$ 33.3	$128.7	$ 76.4	68.5%
Imports	$113.8	$ 90.8	$ 98.0	$407.7	$409.6	(0.5%)
Balance	($ 85.1)	($ 55.8)	($ 64.7)	($279.0)	($333.2)	(16.3%)
OTHER MANUFACTURING TECHNOLOGY						
Exports	$148.0	$162.0	$150.0	$598.0	N.A.	N.A.
Imports	$180.4	$154.6	$169.0	$687.3	N.A.	N.A.
Balance	($ 32.4)	$ 7.4	($ 19.0)	($ 89.3)	N.A.	N.A.

Note: Numerically controlled machine tools is a subgroup of the machine tool total. N.A. = not available; N.M. = not meaningful; ( ) denotes negative. Individual items may not add up to totals due to rounding.

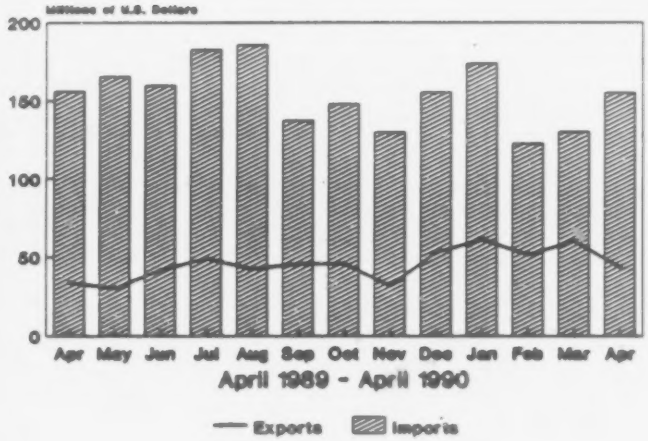
• U.S. machine tool exports in 1990 through April are 21% higher than last year and are on pace to exceed the record export total of $1.03 billion set in 1981.

• Machine tool imports in April 1990 rose 16% over March to $194.4 million, but were still lower than the average monthly import total for 1989. Overall machine tool imports in 1990 are down 7% over 1989.

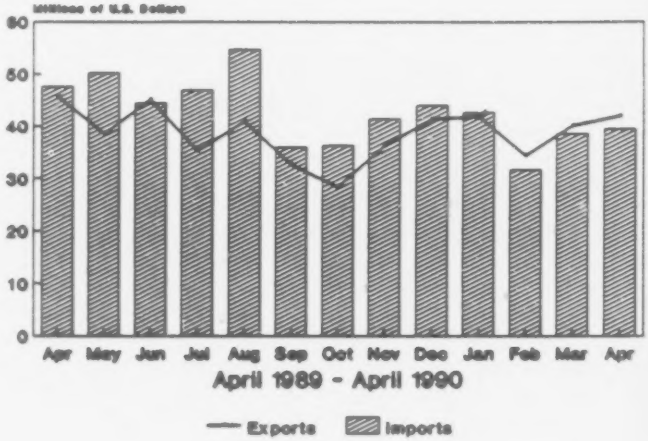
• U.S. machine tool exports to Canada in 1990 through April reached $78.9 million, up from $33.3 million in 1989. Imports from Japan through April 1990 were $361.2 million, down from $464.9 million in 1989.

U.S. MONTHLY TRADE IN MACHINE TOOLS

METAL CUTTING



METAL FORMING



METAL CUTTING MACHINE TOOLS

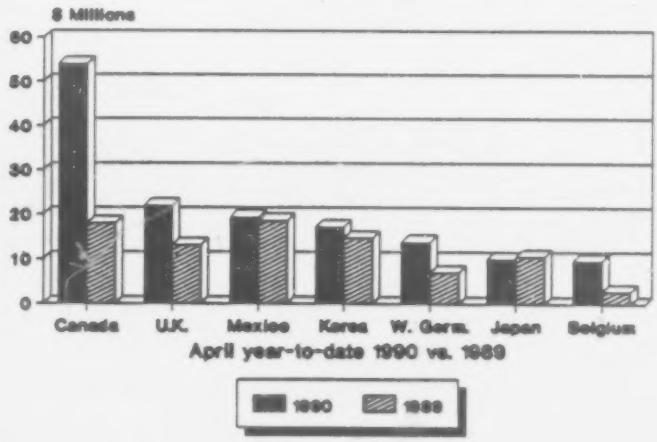
Exports

- Year-to-date U.S. metal cutting exports are up 47% over 1989. Grinding machine exports are up 30%, NC horizontal lathes exports are up 116%, and exports of machining centers are up 91% over 1989.

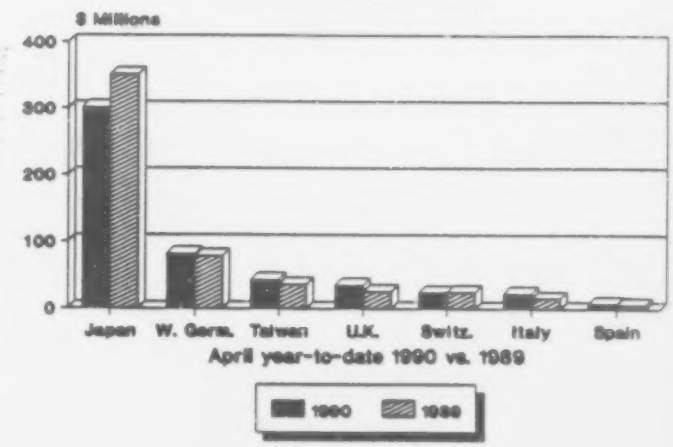
- Although metal cutting exports of $43.6 million in April were down 24% from the monthly average from January-March, they were still 7% higher than the monthly average for 1989.

- U.S. metal cutting exports to Chile through April 1990 were $2.0 million, compared with an annual average of $0.9 million during the 1980s. U.S. metal cutting exports to Yugoslavia reached $1.2 million in 1990 through April, compared with $0.9 million per year on average during the 1980s.

LEADING U.S. EXPORT MARKETS
METAL CUTTING MACHINES



LEADING U.S. IMPORT SOURCES
METAL CUTTING MACHINES



Imports

• U.S. metal cutting imports jumped 19% from March to April to $155.0 million. The average for the previous three months: $141.9 million.

• Imports of gear cutting machines so far in 1990 are up 69% in value to $16.7 million and 15% in unit terms to 184. Imports of non-NC lathes are up 38% in value to $38.0 million and 60% in unit terms to 2,871. Brazil supplied 756 of the non-NC lathes; Taiwan supplied 453.

• Metal cutting imports from Japan are down 14% from last year to $301.8 million. Imports from West Germany are up 4% to $81.8 million. Imports from the United Kingdom are up 38% to $35.6 million.

METAL FORMING MACHINE TOOLS

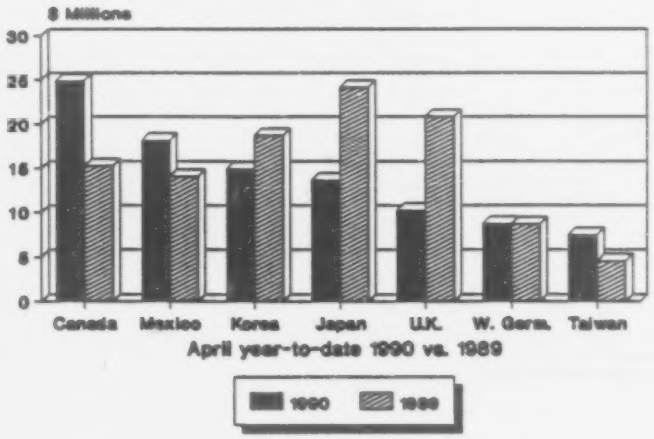
Exports

• The U.S. metal forming machine tool industry maintained its trade surplus for the third consecutive month. April exports of $41.9 million are the highest since June 1989. Exports to France are up 121% to $6.1 million.

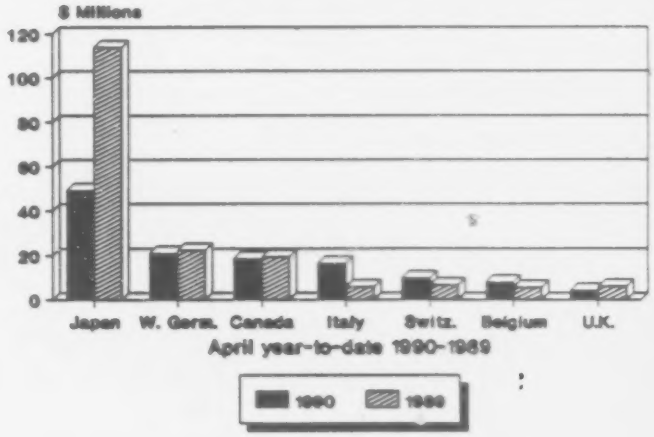
• Metal forming machine tool exports to Japan through April are roughly half of last year's total at this time, as are U.S. metal forming exports to the United Kingdom.

• Year-to-date exports of presses reached $39.9 million in April, up from $23.5 million at this time last year. The leading markets for presses so far in 1990: Mexico ($6.0 million); South Korea ($5.8 million); Canada ($4.6 million); and Taiwan ($3.2 million).

LEADING U.S. EXPORT MARKETS
METAL FORMING MACHINES



LEADING U.S. IMPORT SOURCES
METAL FORMING MACHINES



Imports

• For the third month in a row U.S. metal forming imports failed to break $40 million. The last time this happened: January-March 1986.

• Imports of metal forming machines rose slightly in April to $39.4 million. Year-to-date imports are down 22% over last year.

• Imports of presses in 1990 through April totalled $24.4 million, versus $63.8 million last year at this time. However, unit imports of presses has increased from 693 in 1989 through April to 945 in 1990 through April.

OTHER MANUFACTURING TECHNOLOGY

Exports

• U.S. exports of machine tool parts and accessories totalled $59.8 million in April. The average for January-March: $61.5 million.

• U.S. exports of injection molding machinery jumped to $7.5 million in April, compared with an average over the previous three months of $4.1 million. So far this year the major export markets for injection molding machines are Mexico ($8.9 million) and Canada ($4.1 million).

• U.S. exports of robots were $2.6 million in April, down from $7.1 million on average for the first quarter of the year. Canada is by far the largest export market for robots at $13.2 million.

Imports

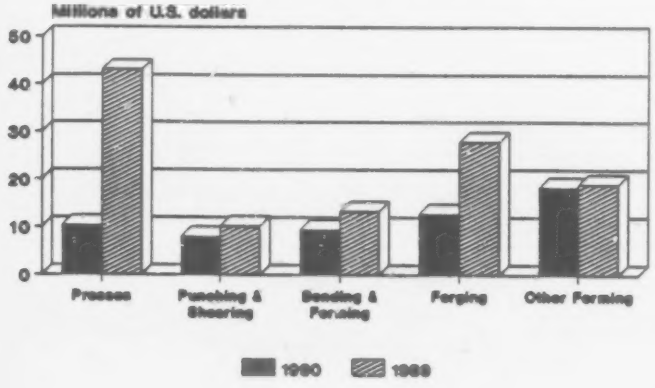
• U.S. imports of robots totalled $9.0 million in April, for a year-to-date total of $41.8 million. The largest suppliers so far in 1990: Japan ($25.4 million); West Germany ($3.7 million) and Sweden ($3.5 million).

• Imports of machine tool parts and accessories were $46.0 million in April, 28% of which came from Japan and 26% from West Germany. The year-to-date total for this category is $193.3 million (compared with U.S. exports of $244.2 million).

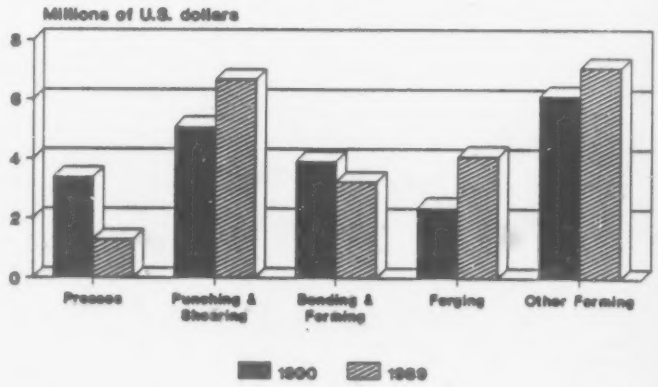
MONTHLY FOCUS

In 1990 through April, the United States has enjoyed a metal forming machine tool trade surplus, largely because of lower imports from Japan. As the charts below indicate, U.S. imports from Japan are down this year compared with last year for every major category of metal forming machines, especially presses and forging machines. Imports from West Germany are down only slightly from last year.

U.S. Imports of
Japanese Metal Forming Machines
Jan.-Apr. 1989 and 1990



U.S. Imports of
West German Metal Forming Machines
Jan.-Apr. 1989 and 1990



1990 EXPORTS

METAL CUTTING

COUNTRY	APRIL	MARCH	%CHANGE	APR YTD'90	APR YTD'89	%CHANGE
Canada	$11,788,934	$11,582,311	1.78%	$53,997,609	$18,064,502	198.92%
U.K.	4,068,271	5,516,479	-26.25	21,964,593	13,124,502	67.36
Mexico	3,201,636	4,451,093	-28.07	19,420,837	18,621,753	4.29
Korea	1,701,195	7,342,668	-76.83	17,191,356	14,709,973	16.87
West Germany	3,168,393	5,506,602	-42.46	13,840,840	6,999,686	97.74
Japan	1,922,553	4,713,394	-59.21	10,019,495	10,566,744	-5.18
Belgium	2,657,856	3,590,394	-25.97	9,609,173	2,762,643	247.83
China	2,448,305	4,652,190	-47.37	8,603,309	11,060,313	-22.21
India	1,061,879	2,156,335	-50.76	8,340,197	3,675,378	126.92
Australia	3,125,583	848,611	268.32	7,744,072	2,866,491	170.16
Brazil	480,843	417,841	15.08	6,580,237	2,635,376	149.69
Italy	636,420	1,676,630	-62.04	5,809,793	6,010,830	-3.34
France	592,332	535,087	10.70	4,006,122	6,064,452	-33.94
USSR	0	0	NA	3,207,507	670,302	378.52
Taiwan	405,986	511,643	-20.65	2,967,842	3,178,406	-6.62
Venezuela	943,187	1,211,544	-22.15	2,316,555	3,938,973	-41.19
Switzerland	97,492	1,081,215	-90.98	2,057,250	1,669,552	23.22
Singapore	104,824	518,200	-79.77	1,933,353	2,289,242	-15.55
Spain	248,188	152,878	62.34	1,585,827	1,299,501	22.03
Netherlands	283,325	285,980	-0.93	1,282,992	2,883,907	-55.51
Thailand	67,338	729,224	-90.77	1,033,635	589,416	75.37
Malaysia	63,765	107,741	-40.82	436,794	123,170	254.63
Austria	25,315	30,700	-17.54	125,034	439,699	-71.56
Indonesia	25,000	2,767	803.51	115,636	1,100,808	-89.50

METAL FORMING

COUNTRY	APRIL	MARCH	%CHANGE	APR YTD'90	APR YTD'89	%CHANGE
Canada	$6,455,241	$6,840,643	-5.63%	$24,887,706	$15,245,583	63.25%
Mexico	5,459,065	3,702,779	47.43	18,144,595	14,066,290	28.99
Korea	3,087,797	2,763,244	11.75	14,900,186	18,728,519	-20.44
Japan	2,804,116	3,626,451	-22.68	13,684,162	24,182,346	-43.41
U.K.	3,510,840	4,351,625	-19.32	10,304,647	20,808,002	-50.48
West Germany	1,510,578	2,102,968	-28.17	8,773,483	8,700,750	0.84
Taiwan	1,950,979	4,115,355	-52.59	7,472,391	4,533,749	64.82
China	1,475,715	1,386,632	6.42	6,893,118	5,951,550	15.82
France	1,151,399	664,983	73.15	6,103,510	2,761,205	121.05
India	278,778	1,540,043	-81.90	4,953,256	3,694,357	34.08
Italy	1,015,223	606,618	67.36	3,392,787	3,539,326	-4.14
Netherlands	804,647	521,442	54.31	2,769,475	823,896	236.14
Australia	1,648,949	552,217	198.61	2,650,432	3,873,243	-31.57
Singapore	1,167,078	122,554	852.30	2,237,956	5,793,256	-61.37
Brazil	595,200	880,468	-32.40	1,658,435	1,753,810	-5.44
Malaysia	1,327,715	159,694	731.41	1,607,641	275,997	482.48
Belgium	182,619	1,183,634	-84.57	1,456,261	681,271	113.76
Spain	481,663	100,764	378.01	1,289,811	2,223,743	-42.00
Switzerland	25,356	352,293	-92.80	912,693	835,879	16.37
Austria	8,643	40,000	-78.39	779,026	616,150	26.43
Thailand	106,510	57,730	84.50	476,507	679,272	-29.85
Venezuela	51,650	33,431	54.50	327,954	4,278,914	-92.34
Indonesia	6,969	17,230	-59.55	31,164	78,113	-60.10
USSR	0	0	NA	0	107,711	-100.00

TOTAL METAL CUTTING AND METAL FORMING

COUNTRY	APRIL	MARCH	%CHANGE	APR YTD'90	APR YTD'89	%CHANGE
Canada	$18,244,175	$18,422,954	-0.97%	$78,885,315	$33,310,085	136.82%
Mexico	8,660,701	8,153,872	6.22	37,565,432	32,688,043	14.92
U.K.	7,579,111	9,868,104	-23.20	32,269,240	33,932,504	-4.90
Korea	4,788,992	10,105,912	-52.61	32,091,542	33,438,492	-4.03
Japan	4,726,669	8,339,845	-43.32	23,703,657	34,749,090	-31.79
West Germany	4,678,971	7,609,570	-38.51	22,614,323	15,700,436	44.04
China	3,924,020	6,038,822	-35.02	15,496,427	17,011,863	-8.91
India	1,340,657	3,696,378	-63.73	13,293,453	7,369,735	80.38
Belgium	2,840,475	4,774,028	-40.50	11,065,434	3,443,914	221.30
Taiwan	2,356,965	4,626,998	-49.06	10,440,233	7,712,155	35.37
Australia	4,774,532	1,400,828	240.84	10,394,504	6,739,734	54.23
France	1,743,731	1,200,070	45.30	10,109,632	8,825,657	14.55
Italy	1,651,643	2,283,248	-27.66	9,202,580	9,550,156	-3.64
Brazil	1,076,043	1,298,309	-17.12	8,238,672	4,389,186	87.70
Singapore	1,271,902	640,754	98.50	4,171,309	8,082,498	-48.39
Netherlands	1,087,972	807,422	34.75	4,052,467	3,707,803	9.30
USSR	0	0	NA	3,207,507	778,013	312.27
Switzerland	122,848	1,433,508	-91.43	3,029,943	2,505,431	20.94
Spain	729,851	253,642	187.75	2,875,638	3,523,244	-18.38
Venezuela	994,837	1,244,975	-20.09	2,644,509	8,217,887	-67.82
Malaysia	1,391,480	267,435	420.31	2,044,435	399,167	412.18
Thailand	173,848	786,954	-77.91	1,510,142	1,268,688	19.03
Austria	33,958	70,700	-51.97	904,060	1,055,849	-14.38
Indonesia	31,969	19,997	59.87	146,800	1,178,921	-87.55

1990 IMPORTS

METAL CUTTING

COUNTRY	APRIL	MARCH	%CHANGE	APR YTD'90	APR YTD'89	%CHANGE
Japan	$80,331,924	$68,437,452	17.38%	$301,849,513	$350,982,602	-14.00%
West Germany	22,817,636	13,307,866	71.46	81,647,040	78,750,488	3.93
Taiwan	11,078,443	10,612,350	4.39	42,980,509	36,270,217	18.50
U.K.	8,970,344	6,926,736	29.50	35,630,844	25,885,220	37.65
Switzerland	6,877,384	7,167,852	-4.05	24,265,872	24,379,115	-0.46
Italy	6,375,784	5,370,922	18.71	22,971,519	15,408,031	49.09
Spain	2,310,399	2,040,731	13.21	8,142,254	6,494,480	25.37
France	1,893,102	2,730,363	-30.66	7,927,742	11,403,631	-30.48
Singapore	2,078,613	1,002,239	107.40	7,773,325	4,561,504	70.41
Canada	1,455,507	1,878,625	-22.52	7,435,963	6,512,056	14.19
Korea	1,021,618	1,891,360	-45.99	6,803,310	6,084,625	11.81
Brazil	1,396,795	2,056,165	-32.07	5,451,593	2,268,260	140.34
Sweden	590,113	573,936	2.82	3,994,767	3,166,867	26.14
Belgium	52,547	355,667	-85.23	592,750	3,702,559	-83.99

METAL FORMING

COUNTRY	APRIL	MARCH	%CHANGE	APR YTD'90	APR YTD'89	%CHANGE
Japan	$14,326,532	$16,116,359	-11.11%	$ 59,365,604	$113,885,341	-47.87%
West Germany	5,929,337	4,955,915	19.64	20,871,243	22,329,261	-6.53
Canada	4,163,542	4,675,977	-10.96	18,620,623	19,311,203	-3.58
Italy	5,343,254	2,271,645	135.22	16,551,583	5,767,070	187.00
Switzerland	2,730,665	4,065,686	-32.84	9,680,475	6,536,594	48.10
Belgium	2,417,659	960,028	151.83	7,987,422	5,637,009	41.70
U.K.	386,131	1,703,875	-77.34	4,333,964	5,980,630	-27.53
Taiwan	1,773,972	545,204	225.38	4,226,927	3,092,918	36.66
Sweden	521,762	758,265	-31.19	2,988,021	3,136,714	-4.74
Spain	608,813	404,048	50.68	1,509,388	501,807	200.79
France	12,466	78,447	-84.11	380,374	761,894	-50.08
Korea	55,637	62,580	-11.09	119,528	37,800	216.21
Singapore	44,315	8,790	404.15	53,105	516,997	-89.73
Brazil	0	0	NA	0	11,025	-100.00

TOTAL METAL CUTTING AND METAL FORMING

COUNTRY	APRIL	MARCH	%CHANGE	APR YTD'90	APR YTD'89	%CHANGE
Japan	$94,658,456	$84,553,811	11.95%	$361,215,117	$464,867,943	-22.30%
West Germany	28,746,973	18,263,781	57.40	102,718,283	101,079,749	1.62
Taiwan	12,852,415	11,157,554	15.19	47,207,436	39,363,135	19.93
U.K.	9,356,475	8,630,611	8.41	39,964,808	31,865,850	25.42
Italy	11,719,038	7,642,567	53.34	39,523,102	21,175,101	86.65
Switzerland	9,608,049	11,233,538	-14.47	33,946,347	30,915,709	9.80
Canada	5,619,049	6,554,602	-14.27	26,056,586	25,823,259	0.90
Spain	2,919,212	2,444,779	19.41	9,651,642	6,996,287	37.95
Belgium	2,470,206	1,315,695	87.75	8,580,172	9,339,568	-8.13
France	1,905,568	2,808,810	-32.16	8,308,116	12,165,525	-31.71
Singapore	2,122,928	1,011,029	109.98	7,826,430	5,078,501	54.11
Sweden	1,111,875	1,332,201	-16.54	6,982,788	6,303,581	10.77
Korea	1,077,255	1,953,940	-44.87	6,922,838	6,122,425	13.07
Brazil	1,396,795	2,056,165	-32.07	5,451,593	2,279,285	139.18

1990 U.S. EXPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	JANUARY 1990		FEBRUARY 1990		MARCH 1990		APRIL 1990	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	2,899	$12,224,015	4,543	$10,935,156	5,847	$11,979,000	4,803	$14,929,198
Boring Machines	13	958,297	8	1,407,307	13	1,519,123	8	1,954,122
Drilling Machines	110	2,255,419	53	920,425	94	2,533,602	62	1,031,525
Gear Cutting Machines	41	5,554,867	19	3,700,605	17	3,507,653	4	342,956
Grinding Machines	271	15,211,730	228	10,470,138	459	12,592,065	306	10,686,858
Horizontal Lathes NC	43	4,863,833	35	5,062,164	35	2,648,406	39	5,237,685
Vertical Lathes NC	5	1,223,137	0	0	16	892,377	5	262,000
Lathes Non-NC	58	1,113,041	48	1,473,294	76	1,855,222	65	2,364,278
Milling Machines	48	3,596,641	29	3,228,995	75	5,272,375	32	3,018,604
Machining Centers	65	7,526,957	34	6,062,752	50	8,542,651	26	4,477,012
Station Type Machines	10	5,374,341	28	7,752,282	8	4,611,947	2	596,029
Other Metal Cutting	314	7,165,369	312	7,438,893	364	9,303,138	269	6,223,447
Punching & Shearing Machines	107	4,427,453	121	9,826,370	155	5,546,446	111	3,759,666
Bending & Forming Machines	137	5,902,352	125	3,466,071	128	5,372,091	177	6,400,347
Presses	259	11,682,624	130	6,795,010	273	10,390,057	191	11,017,558
Forging Machines	26	5,015,295	16	2,278,536	31	3,378,097	26	3,198,154
Other Metal Forming	265	8,974,698	264	5,154,346	312	10,516,058	203	9,968,707
TOTAL	4,671	$103,070,069	5,993	$85,972,344	7,953	$100,460,308	6,329	$85,468,146

PRODUCT TYPES	APR '90 Y-T-D TOTALS		APRIL 1989		APR '89 Y-T-D TOTALS	
	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	18,092	$50,067,369	5,141	$12,327,284	19,511	$47,759,592
Boring Machines	42	5,838,849	17	950,038	135	7,356,574
Drilling Machines	319	6,740,971	27	1,314,012	77	4,215,257
Gear Cutting Machines	81	13,106,081	6	849,917	72	10,543,901
Grinding Machines	1,264	48,960,791	317	9,161,095	1,345	37,574,685
Horizontal Lathes NC	152	17,812,088	35	3,253,292	87	8,230,832
Vertical Lathes NC	26	2,377,514	0	0	4	478,569
Lathes Non-NC	247	6,805,835	43	1,613,647	174	4,847,526
Milling Machines	184	15,116,615	46	1,805,710	231	12,002,529
Machining Centers	175	26,609,372	28	3,534,392	85	13,943,727
Station Type Machines	48	18,334,599	5	929,962	23	8,069,576
Other Metal Cutting	1,259	30,130,847	161	4,263,085	893	16,700,417
Punching & Shearing Machines	494	23,559,935	105	3,794,853	405	19,536,450
Bending & Forming Machines	567	21,140,861	107	4,294,467	389	15,358,253
Presses	853	39,885,249	116	6,281,018	483	23,484,622
Forging Machines	99	13,870,082	38	4,463,652	231	13,160,557
Other Metal Forming	1,044	34,613,809	467	20,849,780	1,582	67,020,979
TOTAL	24,946	$374,970,867	6,659	$79,686,204	25,727	$310,284,046

1990 U.S. EXPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	% CHANGE MAR 90' - APR 90' Units	Value	% CHANGE APR 89' - APR 90' Units	Value	% CHANGE YTD 89' - YTD 90' Units	Value
Used & Rebuilt & Under $2,500	-17.86%	24.63%	-6.57%	21.11%	-7.27%	4.83%
Boring Machines	-38.46	28.63	-52.94	105.69	-68.89	-20.63
Drilling Machines	-34.04	-59.29	129.63	-21.50	314.29	59.92
Gear Cutting Machines	-76.47	-90.22	-33.33	-59.65	12.50	24.30
Grinding Machiens	-33.33	-15.13	-3.47	16.65	-6.02	30.30
Horizontal Lathes NC	11.43	97.77	11.43	61.00	74.71	116.41
Vertical Lathes NC	-68.75	-70.64	NA	NA	550.00	396.80
Lathes Non-NC	-14.47	27.44	51.16	46.52	41.95	40.40
Milling Machiens	-57.33	-42.75	-30.43	67.17	-20.35	25.95
Machining Centers	-48.00	-47.59	-7.14	26.67	105.88	90.83
Station Type Machines	-75.00	-87.08	-60.00	-35.91	108.70	127.21
Other Metal Cutting	-26.10	-33.10	67.08	45.98	40.99	80.42
Punching & Shearing Machines	-28.39	-32.21	5.71	-0.93	21.98	20.59
Bending & Forming Machines	38.28	19.14	65.42	49.04	45.76	37.65
Presses	-30.04	6.04	64.66	75.41	76.60	69.84
Forging Machines	-16.13	-5.33	-31.58	-28.35	-57.14	5.39
Other Metal Forming	-34.94	-5.20	-56.53	-52.19	-34.01	-48.35
TOTAL	-20.42	-14.92	-4.96	7.26	-3.04	20.85

1990 U.S. IMPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	JANUARY 1990		FEBRUARY 1990		MARCH 1990		APRIL 1990	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	80,165	$15,101,348	66,011	$10,754,274	64,814	$11,170,439	83,714	$12,296,755
Boring Machines	40	2,511,474	57	2,665,242	41	2,141,056	47	1,821,173
Drilling Machines	187	5,976,518	66	1,331,591	131	4,767,643	113	3,595,961
Gear Cutting Machines	37	5,386,214	39	3,472,430	74	3,683,095	34	4,189,126
Grinding Machines	722	28,410,149	631	18,196,164	723	19,376,535	737	21,052,417
Horizontal Lathes NC	342	34,310,797	275	24,455,772	290	24,294,192	281	25,715,875
Vertical Lathes NC	23	2,826,480	9	1,890,507	10	1,702,771	6	1,455,000
Lathes Non-NC	609	9,691,329	474	8,086,596	812	10,071,175	976	10,109,253
Milling Machines	450	9,477,437	369	5,328,255	490	4,451,840	598	7,693,031
Machining Centers	368	44,495,101	262	28,896,262	270	30,976,925	344	48,979,703
Station Type Machines	16	4,428,004	9	2,400,678	15	3,697,896	41	8,192,567
Other Metal Cutting	543	14,026,009	390	15,984,088	381	15,326,449	425	12,556,824
Punching & Shearing Machines	110	5,701,791	122	5,391,216	203	8,518,187	146	3,941,347
Bending & Forming Machines	206	7,285,979	152	5,080,016	191	7,366,810	213	6,322,513
Presses	339	7,092,434	368	3,381,548	100	4,367,203	138	9,524,846
Forging Machines	82	8,532,715	121	5,829,041	104	5,559,426	69	3,905,455
Other Metal Forming	289	10,864,319	259	10,882,669	205	10,852,813	196	13,040,125
TOTAL	84,528	$216,118,098	69,614	$154,026,349	68,854	$168,324,455	88,078	$194,391,971

PRODUCT TYPES	APR '90 Y-T-D TOTALS		APRIL 1989		APR '89 Y-T-D TOTALS	
	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	294,704	$49,322,816	53,299	$12,791,125	173,858	$47,050,603
Boring Machines	185	9,138,945	62	2,622,059	314	25,104,571
Drilling Machines	497	15,671,713	173	9,029,944	616	33,078,963
Gear Cutting Machines	184	16,730,865	24	1,627,946	160	9,890,409
Grinding Machines	2,813	87,035,265	718	27,286,695	2,504	84,212,111
Horizontal Lathes NC	1,188	108,776,636	296	26,315,649	1,347	123,794,159
Vertical Lathes NC	48	7,874,758	19	1,935,853	47	5,171,098
Lathes Non-NC	2,871	37,958,353	484	7,059,595	1,795	27,422,823
Milling Machines	1,907	26,950,563	604	9,709,582	1,765	45,016,718
Machining Centers	1,244	153,347,991	318	30,857,850	1,101	119,033,241
Station Type Machines	81	18,719,145	16	11,494,843	64	18,320,444
Other Metal Cutting	1,739	57,893,370	392	16,945,014	1,658	66,203,734
Punching & Shearing Machines	581	23,552,541	128	4,809,075	555	23,947,362
Bending & Forming Machines	762	26,055,318	181	9,461,859	757	31,141,366
Presses	945	24,366,031	111	9,382,988	693	63,768,352
Forging Machines	376	23,826,637	95	13,948,522	595	35,065,219
Other Metal Forming	949	45,639,926	471	8,290,431	2,628	31,900,155
TOTAL	311,074	$732,860,873	57,391	$203,569,030	190,457	$790,121,328

1990 U.S. IMPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	% CHANGE MAR 90' - APR 90' Units	% CHANGE MAR 90' - APR 90' Value	% CHANGE APR 89' - APR 90' Units	% CHANGE APR 89' - APR 90' Value	% CHANGE YTD 89' - YTD 90' Units	% CHANGE YTD 89' - YTD 90' Value
Used & Rebuilt & Under $2,500	29.16%	10.08%	57.06%	-3.86%	69.51%	4.83%
Boring Machines	14.63	-14.94	-24.19	-30.54	-41.08	-63.60
Drilling Machines	-13.74	-24.58	-34.68	-60.18	-19.32	-52.62
Gear Cutting Machines	-54.05	13.74	41.67	157.33	15.00	69.16
Grinding Machines	1.94	8.65	2.65	-22.85	12.34	3.35
Horizontal Lathes NC	-3.10	5.85	-5.07	-2.28	-11.80	-12.13
Vertical Lathes NC	-40.00	-14.55	-68.42	-24.84	2.13	52.28
Lathes Non-NC	20.20	0.38	101.65	43.20	59.94	38.42
Milling Machines	22.04	72.81	-0.99	-20.77	8.05	-40.13
Machining Centers	27.41	58.12	8.18	58.73	12.99	28.83
Station Type Machines	173.33	121.55	156.25	-28.73	26.56	2.18
Other Metal Cutting	11.55	-18.07	8.42	-25.90	4.89	-12.55
Punching & Shearing Machines	-28.08	-53.73	14.06	-18.04	4.68	-1.65
Bending & Forming Machines	11.52	-14.18	17.68	-33.18	0.66	-16.33
Presses	38.00	118.10	24.32	1.51	36.36	-61.79
Forging Machines	-33.65	-29.75	-27.37	-72.00	-36.81	-32.05
Other Metal Forming	-4.39	20.15	-58.39	57.29	-63.89	43.07
TOTAL	27.92	15.49	53.47	-4.51	63.33	-7.25

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
April 90

RELEASED: June 27, 1990

Metal Forming Machine Tools		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8454300010	Die casting machines	116	4330	26	1792
8462100030	Headers and upsetters, including cold headers	17	6696	3	1225
100050	Forging or die stamping machines, and hammers, n.e.c.	82	7174	23	1974
210080	Bending, folding, straight, or flat. mach., incl presses, NC	105	9085	31	2267
290030	Press brakes, non-NC	79	2041	30	865
290040	Bending rolls, non-NC	25	714	8	240
290050	Bending, folding, straight., or flat., n.e.c., non-NC	358	9301	108	3029
310080	Shearing machines, NC	26	2313	4	129
390050	Shearing machines, non-NC	133	2929	32	537
410080	Punching or notching mach., incl. comb. punch & shear, NC	64	11730	9	1961
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	271	6588	66	1133
910060	Hydraulic presses, NC	26	2032	12	761
910090	Hydraulic presses, non-NC	249	12793	79	4130
990030	Presses, n.e.c., NC	41	4416	15	2425
990040	Presses, mechanical, non-NC	41	4425	1	279
990060	Presses, n.e.c., non-NC	496	16219	84	3423
8463100080	Draw benches for bars, tubes, profiles, wire or the like	60	1390	12	323
200080	Thread rolling machines	24	974	12	586
300080	Machines for working wire	198	8156	62	1684
900080	Metal forming machine tools, n.e.c.	646	19763	91	5583
9800000002	Used or rebuilt machine tools	1111	21849	271	6646
9900000002	Machine tools valued at less than $2,500	4098	3234	1150	881
	Forming Total			2129	41872
	Y-T-D Forming Total	8266	158153		
	NC Y-T-D Forming Total	262	29575		
	Cutting and Forming Totals:				
	Monthly Total			6329	85468
	Y-T-D Total	24946	374971		
	NC Y-T-D Total*	950	128692		

Other Manufacturing Technology		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
1000000000	Machine tool parts and accessories	0	244220	0	59841
2000000000	Parts for working rubber or plastics - heading 8477	0	95586	0	22045
2710003070	Quenching or cutting oils	0	7494	0	5697
8428900010	Industrial robots for lifting, handling, loading or unload	88	1592	24	252
8431390090	Parts industrial robots, handling and loading - heading 8428	0	25585	0	8122
8456100000	Laser, light or photon beam for working any material	228	12982	65	4021
200000	Ultrasonic process for working any material	31	772	9	225
8477106010	Injection molding mach., for rubber or oth. thermosetting	63	5013	25	1915
106070	Injection molding mach. for thermoplastics	119	14698	36	5634
200010	Extruders for rubber or other thermosetting materials	133	5241	38	1168
200050	Extruders for processing thermoplastics	306	14161	88	5680
300000	Blow molding machines	135	11602	11	3520
400000	Vacuum-molding and other thermoforming machines	4138	5921	87	744
510010	Machines for molding or retreading pneumatic tires	264	6793	62	1603
510090	Machines for molding or otherwise forming inner tubes	125	8132	15	296
590000	Machines for molding or otherwise forming n.e.c.	449	6869	125	2243
800000	Machines for working rubber or plastics n.e.c.	1314	34338	235	7568
8479899040	Industrial robots, n.e.c.	2269	22337	339	2374
908040	Industrial robot parts	0	13202	0	1462
8537100030	Numerical controls for controlling machine tools	746	10520	166	2317
9024100000	Machines and appliances for testing metals	0	24337	0	6378
9031100000	Machines for balancing mechanical parts	0	11203	0	1696
300000	Profile projectors	0	2385	0	396
9032810040	Industrial process control instr., hydraulic or pneumatic	212978	13000	46286	2843

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "NC Y-T-D Total" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
April 90

Metal Forming

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	2	626
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	0	0	0	0	2	293
210080	11	1221	0	0	0	0	1	36	5	432
290030	0	0	0	0	0	0	6	251	18	429
290040	0	0	0	0	0	0	0	0	4	82
290050	4	85	0	0	0	0	1	18	55	665
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	9	146	0	0	6	54
410080	0	0	0	0	0	0	0	0	3	570
490050	4	25	0	0	0	0	4	56	18	169
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	0	0	0	0	2	184
990030	0	0	0	0	0	0	0	0	10	1557
990040	0	0	0	0	0	0	0	0	0	0
990060	0	0	0	0	0	0	0	0	2	21
8463100080	0	0	0	0	2	30	1	4	1	61
200080	0	0	0	0	0	0	0	0	2	33
300080	2	45	0	0	0	0	2	61	10	178
900080	3	71	0	0	0	0	5	123	9	50
9800000002	3	165	0	0	0	0	2	40	70	884
9900000002	39	37	10	9	7	6	9	7	172	169
Month Tot	66	1649	10	9	18	183	31	595	391	6455
Y-T-D Tot	169	2650	34	779	88	1456	238	1658	1427	24888
NC YTD Tot	15	1381	0	0	0	0	6	438	62	7932
C&F Month	351	4775	31	34	66	2840	43	1076	883	18244
C&F Y-T-D	1076	10395	100	904	309	11065	464	8239	3420	78885
C&F NC YTD*	24	5650	1	23	71	8525	12	1584	244	40527

Other Manufacturing Technology

1000000000	0	1927	0	104	0	666	0	391	0	13126
2000000000	0	304	0	24	0	450	0	506	0	7007
2710003070	0	64	0	5	0	5	0	0	0	104
8428900010	0	0	0	0	0	0	0	0	7	19
8431390090	0	206	0	24	0	64	0	1881	0	1736
8456100000	0	0	0	0	3	63	0	0	2	234
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	1	28
106070	0	0	3	249	0	0	1	85	12	2017
200010	0	0	0	0	0	0	0	0	14	409
200050	1	600	0	0	1	200	0	0	33	839
300000	0	0	0	0	0	0	0	0	1	347
400000	1	5	0	0	0	0	0	0	1	10
510010	3	371	0	0	0	0	0	0	1	73
510090	0	0	0	0	0	0	0	0	0	0
590000	0	0	0	0	2	35	1	59	7	398
800000	14	625	0	0	0	0	4	3	75	1787
8479899040	1	5	0	0	1	60	0	0	141	847
908040	0	6	0	0	0	0	0	0	0	886
8537100030	10	96	0	0	1	11	0	0	1	9
9024100000	0	32	0	54	0	27	0	16	0	753
9031100000	0	119	0	0	0	0	0	0	0	493
300000	0	27	0	0	0	0	0	0	0	3
9032810040	841	105	854	43	1353	77	0	0	2863	220

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
April 90

Metal Forming

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	1	956	3	4	5	51	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	0	0	0	0	1	37
210080	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	1	32	0	0	0	0	0	0	0	0
290050	4	269	4	97	0	0	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	4	133	0	0	0	0	0	0	0	0
410080	0	0	0	0	0	0	0	0	0	0
490050	0	0	1	141	4	45	1	7	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	1	13	0	0	0	0	1	10
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	0	0	0	0	1	20	0	0	0	0
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	0	0	5	65	0	0	0	0	4	146
900080	1	62	1	555	8	76	0	0	2	808
9800000002	0	0	12	263	4	83	0	0	0	0
9900000002	26	23	12	13	4	3	0	0	22	14
Month Tot	37	1476	39	1151	26	279	1	7	30	1015
Y-T-D Tot	75	6893	192	6104	233	4953	6	31	96	3393
NC YTD Tot	3	2629	18	2465	0	0	0	0	3	589
C&F Month	109	3924	148	1744	65	1341	2	32	148	1652
C&F Y-T-D	207	15496	731	10110	401	13293	58	147	871	9203
C&F NC YTD*	25	8119	61	5365	10	3031	0	0	4	628

Other Manufacturing Technology

1000000000	0	174	0	1492	0	780	0	46	0	1811
2000000000	0	45	0	142	0	196	0	31	0	217
2710003070	0	14	0	0	0	0	0	44	0	10
8428900010	0	0	0	0	0	0	0	0	0	0
8431390090	0	126	0	75	0	44	0	0	0	8
8456100000	3	73	3	146	0	0	0	0	2	49
200000	0	0	1	15	0	0	0	0	1	21
8477106010	0	0	0	0	0	0	0	0	1	56
106070	0	0	2	63	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200050	23	708	4	91	0	0	0	0	0	0
300000	0	0	3	60	0	0	0	0	0	0
400000	0	0	0	0	0	0	0	0	0	0
510010	0	0	1	32	0	0	0	0	4	228
510090	0	0	0	0	0	0	0	0	0	0
590000	0	0	15	225	3	3	0	0	12	176
800000	2	1271	0	0	0	0	0	0	1	288
8479899040	0	0	17	202	1	9	0	0	44	263
908040	0	0	0	45	0	0	0	0	0	15
8537100030	0	0	22	314	0	0	0	0	9	119
9024100000	0	29	0	202	0	28	0	0	0	29
9031100000	0	0	0	10	0	286	0	0	0	3
300000	0	0	0	51	0	0	0	0	0	11
9032810040	366	18	2926	173	308	15	0	0	4338	279

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS

Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology

April 90

Metal Forming

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	0	0
8462100030	2	165	0	0	0	0	0	0	0	0
100050	11	763	1	45	0	0	4	215	0	0
210080	0	0	2	95	0	0	5	137	0	0
290030	0	0	0	0	0	0	3	58	0	0
290040	0	0	0	0	0	0	1	50	0	0
290050	4	82	12	275	0	0	3	128	0	0
310080	0	0	0	0	0	0	0	0	4	129
390050	0	0	1	24	2	36	2	10	0	0
410080	0	0	0	0	0	0	1	79	2	426
490050	10	161	3	35	0	0	8	93	0	0
910060	0	0	0	0	0	0	7	369	0	0
910090	0	0	2	52	0	0	35	1297	1	128
990030	4	678	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	15	434	6	173	0	0	53	497	0	0
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	1	337	0	0
300080	4	67	0	0	0	0	8	193	1	102
900080	5	360	1	5	2	1279	10	213	2	16
9800000002	0	0	35	2352	1	13	104	1649	0	0
9900000002	228	94	34	32	0	0	131	134	15	3
Month Tot	283	2804	97	3088	5	1328	376	5459	25	805
Y-T-D Tot	599	13684	234	14900	26	1608	2042	18145	100	2769
NC YTD Tot	13	2580	11	1084	2	65	38	2695	16	1486
C&F Month	460	4727	200	4789	11	1391	964	8661	34	1088
C&F Y-T-D	1846	23704	823	32092	93	2044	5129	37565	303	4052
C&F NC YTD*	51	6839	54	7968	2	65	107	6799	21	1712

Other Manufacturing Technology

1000000000	0	5008	0	1462	0	273	0	3483	0	493
2000000000	0	940	0	196	0	61	0	1584	0	232
2710003070	0	3	0	11	0	0	0	27	0	28
8428900010	1	47	0	0	0	0	0	0	0	0
8431390090	0	93	0	59	0	5	0	1067	0	33
8456100000	15	409	0	0	2	114	0	0	0	0
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	23	1832	0	0
106070	2	1385	0	0	0	0	8	796	0	0
200010	0	0	0	0	0	0	5	308	0	0
200050	0	0	0	0	1	21	8	416	2	74
300000	2	2397	0	0	0	0	3	498	0	0
400000	77	484	0	0	0	0	7	236	0	0
510010	7	168	0	0	2	44	6	139	0	0
510090	2	124	0	0	0	0	8	3	0	0
590000	12	177	2	32	0	0	20	160	5	85
800000	1	17	0	0	5	25	41	2594	0	0
8479899040	22	166	41	242	0	0	7	44	4	22
908040	0	20	0	8	0	6	0	4	0	0
8537100030	1	16	4	60	1	13	1	22	0	0
9024100000	0	1087	0	2191	0	21	0	97	0	9
9031100000	0	26	0	268	0	0	0	135	0	0
300000	0	190	0	0	0	0	0	0	0	0
9032810040	754	79	3076	158	50	3	4174	127	5290	274

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

* "C&F NC YTD" does not include code 8456300000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
April 90

Metal Forming

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	1	3	0	0	0	0	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	2	160	0	0	1	400	0	0
210080	3	151	0	0	0	0	2	119	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	1	5	3	665	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	1	6	0	0
410080	1	110	0	0	0	0	0	0	0	0
490050	0	0	0	0	0	0	0	0	0	0
910060	0	0	2	83	0	0	0	0	1	68
910090	0	0	0	0	0	0	1	11	0	0
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	0	0	0	0	0	0	3	513	0	0
8463100080	0	0	1	22	0	0	0	0	0	0
200080	0	0	9	216	0	0	0	0	0	0
300080	2	111	0	0	0	0	1	25	0	0
900080	0	0	0	0	0	0	5	163	0	0
9800000002	6	751	0	0	1	20	4	39	7	39
9900000002	52	41	0	0	0	0	12	10	0	0
Month Tot	65	1167	14	482	2	25	33	1951	8	107
Y-T-D Tot	165	2238	28	1290	105	973	152	7472	34	477
NC YTD Tot	4	261	3	115	1	30	17	1363	1	68
C&F Month	120	1272	70	730	43	123	113	2357	28	174
C&F Y-T-D	801	4171	154	2876	301	3030	476	10440	84	1510
C&F NC YTD*	14	781	20	566	3	449	29	2173	3	190

Other Manufacturing Technology

1000000000	0	1433	0	282	0	536	0	992	0	99
2000000000	0	313	0	461	0	65	0	171	0	103
2710003070	0	84	0	0	0	5	0	100	0	3
8428900010	1	15	0	0	0	0	0	0	0	0
8431390090	0	62	0	0	0	0	0	0	0	0
8456100000	0	0	0	0	0	0	15	1941	0	0
200000	0	0	5	132	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	0	0
106070	0	0	0	0	0	0	1	550	0	0
200010	0	0	0	0	0	0	0	0	0	0
200050	0	0	0	0	0	0	1	183	0	0
300000	0	0	0	0	0	0	0	0	0	0
400000	0	0	1	9	0	0	0	0	0	0
510010	0	0	0	0	2	3	0	0	0	0
510090	0	0	0	0	0	0	5	169	0	0
590000	0	0	2	15	0	0	0	0	0	0
800000	6	152	0	0	0	0	1	167	0	0
8479899040	1	6	0	0	5	94	0	0	0	0
908040	0	25	0	30	0	89	0	3	0	0
8537100030	1	14	0	0	0	0	0	0	1	10
9024100000	0	33	0	6	0	71	0	34	0	7
9031100000	0	32	0	0	0	5	0	6	0	3
300000	0	12	0	0	0	0	0	57	0	0
9032810040	1494	218	917	49	127	9	123	49	4861	24

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
April 90

Metal Forming

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	1	14	0	0	0	0	0	0	13	138
8462100030	0	0	0	0	0	0	0	0	1	1060
100050	0	0	0	0	0	0	0	0	1	61
210080	2	77	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	3	126
290040	0	0	0	0	0	0	0	0	2	76
290050	1	20	0	0	1	35	9	567	6	117
310080	0	0	0	0	0	0	0	0	0	0
390050	3	47	0	0	0	0	2	34	2	47
410080	2	776	0	0	0	0	0	0	0	0
490050	3	37	0	0	0	0	4	56	6	308
910060	2	240	0	0	0	0	0	0	0	0
910090	13	394	0	0	0	0	3	19	20	2022
990030	0	0	0	0	0	0	0	0	1	190
990040	0	0	0	0	0	0	0	0	1	279
990060	0	0	0	0	0	0	1	197	3	1567
8463100080	5	163	0	0	0	0	2	42	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	1	15	0	0	0	0	11	289	11	388
900080	17	1502	0	0	0	0	13	206	7	95
9800000002	5	167	0	0	0	0	4	19	13	164
9900000002	49	59	0	0	23	16	180	82	125	129
Month Tot	104	3511	0	0	24	52	229	1511	215	6765
Y-T-D Tot	543	10305	0	0	69	328	623	8773	988	22386
NC YTD Tot	15	2622	0	0	1	28	3	382	30	1362
C&F Month	1138	7579	0	0	48	995	484	4679	770	11243
C&F Y-T-D	2418	32269	14	3208	385	2645	1530	22614	2952	35014
C&F NC YTD*	85	16830	0	0	2	138	28	4288	79	6445

Other Manufacturing Technology

1000000000	0	8263	0	276	0	865	0	5638	0	10221
2000000000	0	2044	0	543	0	445	0	1874	0	4091
2710003070	0	3	0	0	0	5	0	12	0	5171
8428900010	1	15	0	0	0	0	2	126	12	29
8431390090	0	375	0	0	0	18	0	40	0	2204
8456100000	9	314	0	0	0	0	2	446	9	233
200000	0	0	0	0	0	0	2	57	0	0
8477106010	0	0	0	0	0	0	0	0	0	0
106070	0	0	0	0	0	0	1	76	6	413
200010	0	0	0	0	0	0	0	0	19	451
200050	2	51	0	0	0	0	3	300	9	2196
300000	0	0	0	0	0	0	0	0	2	218
400000	0	0	0	0	0	0	0	0	0	0
510010	0	0	0	0	0	0	1	74	35	472
510090	0	0	0	0	0	0	0	0	0	0
590000	6	79	0	0	0	0	6	156	32	642
800000	7	111	0	0	0	0	26	199	52	329
8479899040	0	0	0	0	0	0	51	360	3	54
908040	0	213	0	0	0	27	0	71	0	15
8537100030	63	886	0	0	0	0	16	226	35	522
9024100000	0	588	0	0	0	0	0	462	0	602
9031100000	0	19	0	0	0	5	0	13	0	271
300000	0	0	0	0	0	0	0	0	0	45
9032810040	4851	457	300	4	759	68	1878	104	3783	289

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
April 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Bulgaria	0	0	0	0	0	0
Czechoslovakia	5	33	0	0	5	33
Denmark	4	325	2	42	6	366
East Germany	0	0	1	279	1	279
Finland	23	6	6	80	29	85
Greece	0	0	6	1667	6	1667
Hungary	0	0	6	5	6	5
Iceland	0	0	0	0	0	0
Ireland	2	69	4	44	6	113
Luxembourg	1	5	0	0	1	5
Norway	10	24	0	0	10	24
Poland	0	0	1	1060	1	1060
Portugal	0	0	1	28	1	28
Romania	0	0	0	0	0	0
Sweden	43	594	15	22	58	617
Turkey	3	27	16	12	19	39
Yugoslavia	1	245	1	18	2	263
Oth Europe	0	0	4	3	4	3
TOTAL	1783	13105	534	11949	2317	25054
NORTH AND CENTRAL AMERICA						
Bahamas	0	0	0	0	0	0
Barbados	0	0	3	3	3	3
Belize	0	0	0	0	0	0
Bermuda	0	0	0	0	0	0
Costa Rica	3	226	5	20	8	246
Dominican Rep	12	104	53	212	65	317
El Salvador	0	0	0	0	0	0
Guatemala	2	6	0	0	2	6
Haiti	3	9	2	22	5	31
Honduras	9	24	5	283	14	307
Jamaica	2	4	1	9	3	13
Panama	12	7	3	61	15	69
Trinidad	0	0	1	42	1	42
Oth N & C Am.	6	7	0	0	6	7
TOTAL	1129	15378	840	12566	1969	27944
SOUTH AMERICA						
Argentina	4	285	3	3	7	288
Bolivia	1	6	0	0	1	6
Chile	13	1240	14	504	27	1744
Colombia	26	44	12	253	38	297
Ecuador	1	32	0	0	1	32
Paraguay	0	0	0	0	0	0
Peru	18	94	0	0	18	94
Uruguay	0	0	0	0	0	0
Oth South Am.	0	0	0	0	0	0
TOTAL	99	3125	84	1406	183	4531
OCEANIA						
New Zealand	1	8	1	193	2	201
Oth Oceania	4	24	1	22	5	45
TOTAL	290	3157	68	1863	358	5021

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
April 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
Bangladesh	0	0	0	0	0	0
Hong Kong	210	477	17	65	227	542
Iran	0	0	0	0	0	0
Iraq	0	0	13	448	13	448
Israel	13	31	5	117	18	148
Jordan	0	0	0	0	0	0
Kuwait	0	0	0	0	0	0
Laos	0	0	0	0	0	0
Lebanon	0	0	0	0	0	0
Macao	0	0	0	0	0	0
Oman	4	7	0	0	4	7
Pakistan	3	62	0	0	3	62
Philippines	30	62	1	21	31	83
Qatar	0	0	0	0	0	0
Saudi Arabia	15	21	7	1199	22	1220
Sri Lanka	0	0	0	0	0	0
Syria	0	0	0	0	0	0
United Arab Emr	0	0	0	0	0	0
Vietnam	0	0	0	0	0	0
Oth Asia	0	0	0	0	0	0
TOTAL	828	8461	598	14055	1426	22516
AFRICA						
Algeria	0	0	0	0	0	0
Botswana	0	0	0	0	0	0
Egypt	0	0	1	28	1	28
Ethiopia	0	0	0	0	0	0
Gabon	0	0	0	0	0	0
Ghana	0	0	0	0	0	0
Guinea	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Malawi	0	0	0	0	0	0
Mauritius	0	0	0	0	0	0
Morocco	0	0	0	0	0	0
Niger	0	0	0	0	0	0
Nigeria	43	89	0	0	43	89
South Africa	27	65	4	3	31	68
Sudan	0	0	0	0	0	0
Swaziland	0	0	0	0	0	0
Tunisia	1	217	0	0	1	217
Zaire	0	0	0	0	0	0
Zambia	0	0	0	0	0	0
Zimbabwe	0	0	0	0	0	0
Oth Africa	0	0	0	0	0	0
TOTAL	71	371	5	31	76	402

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 900000000l, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* "NC Y-T-D Cutting Total" does not include code 8456300000.

U.S. EXPORTS

Metal Cutting Machine Tools - April 90

RELEASED: June 27, 1990

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456300000	Electro-discharge machines	33	2423	6	461
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	31	5769	8	1332
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	8	1786	1	165
100035	Horiz. mach. ctrs., ATC	18	5420	7	1727
100045	Mach. ctrs., n.e.c.	118	13635	10	1252
200010	Unit construction mach. (single station transfer), NC	0	0	0	0
200090	Unit construction mach. (single station transfer), non-NC	6	2368	2	596
300010	Multi-station transfer machines, NC	6	9872	0	0
300090	Multi-station transfer machines, non-NC	22	4138	0	0
8458110010	Horiz. lathes, multiple spindle, NC	13	3378	6	2267
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	114	8487	26	2095
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	15	2507	6	762
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	10	3440	1	114
190030	Horiz. engine or toolroom lathes, non-NC	49	891	19	315
190050	Automatic bar and/or chucking mach., single spindle, non-NC	2	127	1	24
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	27	1233	2	135
190090	Horiz. lathes, n.e.c., non-NC	125	1679	23	290
911060	Vertical turret lathes, multiple spindle, NC	0	0	0	0
911080	Vertical turret lathes, n.e.c., NC	2	316	0	0
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	12	611	1	110
915070	Vertical lathes, excl. VTL's, n.e.c., NC	12	1450	4	152
991050	Vertical turret lathes, non-NC	7	137	2	60
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	37	2739	18	1540
8459100000	Way-type unit head machines	14	1957	0	0
210080	Other drilling machines, NC	44	4019	7	326
290040	Drilling machines, multiple spindle, non-NC	10	430	1	21
290050	Drilling machines, radial, non-NC	15	113	3	28
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	33	748	8	284
290090	Drilling machines, n.e.c., non-NC	217	1431	43	373
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	3	1569	0	0
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	1	83	0	0
310070	Boring-milling mach., n.e.c., NC	4	186	1	54
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	0	0	0	0
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	1	46	1	46
400040	Boring machines, vertical, NC	1	689	0	0
400050	Boring machines, vertical, non-NC	18	254	3	32
400070	Boring machines, n.e.c., NC	7	2536	1	1770
400080	Boring machines, n.e.c., non-NC	7	476	2	52
510080	Milling machines, knee type, NC	7	440	3	218
590030	Milling machines, knee type, non-NC	37	1088	10	302
610080	Milling machines, excl. knee type, n.e.c., NC	28	8794	8	2196
690050	Milling machines, profile, dup., or die sinking, non-NC	21	496	2	158
690070	Milling machines, bed type, non-NC	0	0	0	0
690090	Milling machines, n.e.c., non-NC	91	4299	9	145
700020	Threading or tapping machines, n.e.c., NC	11	635	2	112
700080	Threading or tapping machines, n.e.c., non-NC	123	1452	33	332
8460110080	Flat surface grinding mach., NC	19	1943	6	1417
190010	Flat surface grinding mach., recip.-table type, non-NC	26	491	5	92
190050	Flat surface grinding mach., n.e.c., non-NC	16	2457	3	450
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	39	12701	12	3673
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	12	1933	1	64
290030	Grinding mach., internal cylindrical, non-NC	17	1995	3	558
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	148	6195	26	860
310080	Sharpening machines (tool & cutter grinding), NC	11	1168	3	950
390050	Sharpening machines (tool & cutter grinding), non-NC	343	7632	116	918
400060	Honing or lapping machines, NC	0	0	0	0
400080	Honing or lapping machines, non-NC	263	6430	47	598
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	5	741	1	49
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	365	5274	83	1059
8461100060	Planing machines, NC	1	111	0	0
100080	Planing machines, non-NC	125	4476	24	1704
200010	Shaping or slotting machines, NC	3	87	1	14
200090	Shaping or slotting machines, non-NC	19	534	3	51
300060	Broaching machines, NC	10	1139	0	0
300080	Broaching machines, non-NC	11	1041	1	445
401050	Gear hobbers	8	838	0	0
401070	Gear shapers	16	2944	0	0
401090	Gear cutting machines, n.e.c.	24	6994	1	127
405060	Gear grinding or finishing machines	33	2329	3	216
500050	Sawing or cutting-off machines, NC	68	1845	19	294
500090	Sawing or cutting-off machines, non-NC	528	7424	114	1264
9000000001	Metal cutting machine tools, n.e.c.	327	8964	66	1546
9800000001	Used or rebuilt machine tools	1520	18283	412	5551
9900000001	Machine tools valued at less than $2,500	11363	6702	2970	1851
	Cutting Total			4200	43597
	Y-T-D Cutting Total	16680	216818		
	NC Y-T-D Cutting Total*	688	99117		

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - April 90

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	4	397
8457100015	0	0	0	0	1	114	0	0	5	929
100025	0	0	0	0	0	0	0	0	1	165
100035	0	0	0	0	3	713	0	0	1	240
100045	0	0	0	0	0	0	0	0	2	103
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	1	1550	0	0	0	0	0	0	3	561
110030	0	0	0	0	16	1217	0	0	0	0
110050	0	0	0	0	2	208	0	0	2	273
110090	0	0	0	0	0	0	0	0	1	114
190030	0	0	0	0	0	0	0	0	4	110
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	1	57
190090	0	0	0	0	0	0	0	0	7	138
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	2	56
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	1	35	0	0
290040	0	0	0	0	0	0	0	0	1	21
290050	0	0	0	0	0	0	0	0	2	12
290070	0	0	0	0	0	0	0	0	3	16
290090	0	0	0	0	0	0	1	60	24	156
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	1	46
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	2	20
400070	0	0	0	0	0	0	0	0	1	1770
400080	0	0	0	0	0	0	0	0	1	26
510080	0	0	0	0	0	0	0	0	3	218
590030	4	144	0	0	0	0	0	0	6	157
610080	1	1096	0	0	0	0	0	0	1	46
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	1	17	1	7
700020	0	0	0	0	0	0	0	0	1	79
700080	0	0	0	0	1	87	0	0	13	150
8460110080	0	0	0	0	0	0	0	0	1	1013
190010	0	0	0	0	0	0	0	0	4	81
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	4	2017
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	8	493
310080	0	0	0	0	0	0	0	0	1	202
390050	0	0	0	0	0	0	0	0	34	347
400060	0	0	0	0	0	0	0	0	0	0
400080	6	38	1	5	0	0	0	0	7	143
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	0	0	0	0	1	7	17	159
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	3	111
500090	1	3	0	0	0	0	0	0	24	191
9000000001	0	0	0	0	0	0	0	0	23	181
9800000001	4	106	2	9	7	275	3	358	64	713
9900000001	268	189	18	12	18	44	5	3	209	268
Month Tot	285	3126	21	25	48	2658	12	481	492	11789
Y-T-D Tot	907	7744	66	125	221	9609	226	6580	1993	53998
NC YTD Tot*	9	4268	1	23	71	8525	6	1145	182	32595

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - April 90

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	1	223	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	1	66	0	0	0	0	0	0
110030	1	115	2	309	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	4	61	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	1	25	8	388
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	6	40	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	2	823	1	41	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	2	502	0	0	0	0
290050	0	0	0	0	0	0	0	0	1	7
310080	0	0	0	0	0	0	0	0	0	0
390050	49	319	0	0	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	5	100	0	0	0	0	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	1	6	1	6	0	0	4	59
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	1	445	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	3	8	0	0	1	10	0	0	1	21
9000000001	1	15	0	0	0	0	0	0	0	0
9800000001	6	620	7	61	15	269	0	0	1	92
9900000001	4	3	93	49	13	11	0	0	103	69
Month Tot	72	2448	109	592	39	1062	1	25	118	636
Y-T-D Tot	132	8603	539	4006	168	8340	52	116	775	5810
NC YTD Tot*	22	5490	43	2900	10	3031	0	0	1	39

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - April 90

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	1	31	1	33
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	1	480	0	0	3	185	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	1	132	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	2	131	0	0	0	0	3	160
110050	0	0	1	64	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	6	94	0	0
190050	0	0	0	0	0	0	1	24	0	0
190070	1	78	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	13	136	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	4	152	0	0
991050	0	0	0	0	0	0	1	18	0	0
995090	0	0	0	0	0	0	1	90	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	1	38	0	0	2	113	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	1	15	0	0
290070	0	0	0	0	0	0	2	15	0	0
290090	1	65	0	0	0	0	2	7	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	1	54	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	1	11	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	1	35	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	1	13	3	81	0	0	2	13	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	9	28	0	0
8460110080	1	128	0	0	0	0	3	239	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	2	367	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	1	64
290030	1	55	0	0	0	0	0	0	0	0
290050	1	202	0	0	0	0	16	157	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	5	34	0	0	0	0	0	0	1	8
400060	0	0	0	0	0	0	0	0	0	0
400080	1	12	7	93	2	27	1	20	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	22	323	3	33	0	0	12	169	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	2	7	4	74	0	0	11	100	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	2	18	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	1	87	0	0
405060	2	183	0	0	0	0	1	33	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	12	125	4	42	4	36	32	508	2	13
9000000001	1	94	0	0	0	0	4	37	0	0
9800000001	16	148	15	420	0	0	72	640	1	6
9900000001	108	90	60	58	0	0	383	225	0	0
Month Tot	177	1923	103	1701	6	64	588	3202	9	283
Y-T-D Tot	1247	10019	589	17191	67	437	3087	19421	203	1283
NC YTD Tot*	38	4258	43	6884	0	0	69	4104	5	225

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - April 90

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	2	9	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	1	31
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	1	6	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	1	55	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	1	57	0	0
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	1	10	5	54	4	13
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	0	0	2	24	0	0	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	16	184	0	0	0	0	0	0
500090	0	0	5	32	0	0	1	26	1	5
9000000001	0	0	1	3	2	19	18	214	0	0
9800000001	0	0	0	0	2	20	0	0	0	0
9900000001	54	50	34	30	33	20	53	47	14	18
Month Tot	55	105	56	248	41	97	80	406	20	67
Y-T-D Tot	636	1933	126	1586	196	2057	324	2968	50	1034
MC YTD Tot*	10	520	17	451	2	419	12	810	2	122

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - April 90

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	2	289
100025	0	0	0	0	0	0	0	0	0	0
100035	1	260	0	0	0	0	0	0	2	514
100045	0	0	0	0	0	0	0	0	3	261
200010	0	0	0	0	0	0	0	0	0	0
200090	1	464	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	1	90
110030	0	0	0	0	0	0	1	81	1	82
110050	0	0	0	0	0	0	0	0	1	217
110090	0	0	0	0	0	0	0	0	0	0
190030	2	20	0	0	2	26	0	0	1	4
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	1	8	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	1	110	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	1	42
995090	5	226	0	0	1	755	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	2	108	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	3	254	0	0	0	0	0	0	0	0
290090	2	9	0	0	2	11	4	19	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	1	26
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	1	100	0	0
690050	0	0	0	0	0	0	2	158	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	1	14	0	0	0	0
700020	0	0	0	0	0	0	0	0	1	33
700080	2	44	0	0	2	5	0	0	6	17
8460110080	0	0	0	0	0	0	0	0	1	37
190010	0	0	0	0	0	0	1	11	0	0
190050	2	393	0	0	0	0	0	0	0	0
210080	1	318	0	0	0	0	2	612	3	359
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
310080	0	0	0	0	0	0	1	713	1	36
390050	13	81	0	0	0	0	4	32	10	97
400060	0	0	0	0	0	0	0	0	0	0
400080	4	49	0	0	0	0	0	0	3	34
900060	0	0	0	0	0	0	0	0	1	49
900080	8	131	0	0	0	0	0	0	12	143
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	5	687	2	836
200010	0	0	0	0	0	0	1	14	0	0
200090	0	0	0	0	0	0	0	0	1	32
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	40	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	11	57	0	0	0	0	5	102	7	86
9000000001	1	650	0	0	0	0	7	68	8	267
9800000001	15	949	0	0	0	0	64	332	118	533
9900000001	962	157	0	0	15	22	155	92	368	395
Month Tot	1034	4068	0	0	24	943	255	3168	555	4478
Y-T-D Tot	1875	21965	14	3208	316	2317	907	13841	1964	12628
NC YTD Tot*	70	14208	0	0	1	110	25	3905	49	5083

Please see notes on last page of the metal forming section.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
April 90

RELEASED: June 27, 1990

Metal Forming Machine Tools		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8454300010	Die casting machines	124	7828	15	2018
8462100030	Headers and upsetters, including cold headers	69	4911	33	916
100050	Forging or die stamping machines, and hammers, n.e.c.	307	18916	36	2989
210080	Bending, folding, straight. or flat. mach., incl presses, NC	208	9029	62	2236
290030	Press brakes, non-NC	97	2555	36	957
290040	Bending rolls, non-NC	38	1102	9	189
290050	Bending, folding, straight., or flat., n.e.c., non-NC	419	13370	106	2941
310080	Shearing machines, NC	25	1359	10	217
390050	Shearing machines, non-NC	184	4668	47	507
410080	Punching or notching mach., incl. comb. punch & shear, NC	123	13548	28	2309
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	249	3978	61	908
910060	Hydraulic presses, NC	9	2721	5	1898
910090	Hydraulic presses, non-NC	615	6631	70	3268
990030	Presses, n.e.c., NC	41	3553	5	283
990035	Mechanical transfer presses, non-NC	2	2069	2	2069
990045	Mechanical presses, n.e.c., non-NC	50	1254	19	421
990060	Presses, n.e.c., non-NC	228	8138	37	1585
8463100080	Draw benches for bars, tubes, profiles, wire or the like	17	799	7	341
200080	Thread rolling machines	39	2010	8	556
300080	Machines for working wire	609	28584	142	8493
900080	Metal forming machine tools, n.e.c.	160	6419	24	1633
9800000002	Used or rebuilt machine tools	286	6613	92	2056
9900000002	Machine tools valued at less than $2,500	5046	2088	1749	612
	Forming Total			2603	39402
	Y-T-D Forming Total	8945	152141		
	NC Y-T-D Forming Total	406	30209		
	Cutting and Forming Totals:				
	Monthly Total			88078	194392
	Y-T-D Total	311074	732861		
	NC Y-T-D Total	4389	407673		

Other Manufacturing Technology		TOTAL YTD		TOTAL MO.	
1000000000	Machine tool parts and accessories	0	193250	0	45984
2000000000	Parts for working rubber or plastics - heading 8477	0	114668	0	33806
2710003070	Quenching or cutting oils	0	77	0	23
8428900010	Industrial robots for lifting, handling, loading or unload	1047	17361	110	5010
8431390080	Parts industrial robots, handling and loading - heading 8428	0	31507	0	7892
8456101010	Laser, light or photon beam for working metal, NC	63	11760	15	2693
101020	Laser, light or photon beam for working metal, non-NC	34	570	4	139
105000	Laser, light or photon beam for other materials	51	1798	11	1466
201010	Ultrasonic processes for working metal, NC	0	0	0	0
201050	Ultrasonic processes for working metal, non-NC	2	22	0	0
205000	Ultrasonic processes for working other materials	4	184	0	0
8477103000	Injection molding mach., for manufacturing shoes	74	1510	55	573
106010	Injection molding mach., for rubber or oth. thermosetting	318	24151	102	5922
106050	Injection molding mach., for thermoplastics	946	90130	258	30380
200010	Extruders for rubber or other thermosetting materials	64	5360	16	1791
200050	Extruders for processing thermoplastics	316	21637	76	5619
300000	Blow molding machines	152	13734	22	4200
400000	Vacuum-molding and other thermoforming machines	64	1847	39	619
510010	Machines for molding or retreading pneumatic tires	267	22065	79	8306
510090	Machines for molding or otherwise forming inner tubes	97	5958	26	1471
590000	Machines for molding or otherwise forming n.e.c.	255	27549	52	2688
800000	Machines for working rubber or plastics n.e.c.	2987	40626	1526	6775
8479899040	Industrial robots, n.e.c.	9068	24411	5182	4022
908040	Industrial robot parts	0	11041	0	2815
8537100030	Numerical controls for controlling machine tools	5861	15913	1276	5185
9024100000	Machines and appliances for testing metals	0	3691	0	1025
9031100000	Machines for balancing mechanical parts	0	2204	0	558
300000	Profile projectors	0	2025	0	599
9032810020	Industrial process control instr., hydraulic	54030	624	19653	258
810060	Industrial process control instr., pneumatic	48891	1608	5103	571

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
April 90

Metal Forming

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	6	351	0	0	1	127
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	5	379	0	0	2	80
210080	0	0	0	0	9	121	0	0	9	251
290030	12	243	0	0	19	580	0	0	0	0
290040	0	0	0	0	2	42	0	0	1	41
290050	1	4	0	0	37	1001	0	0	6	218
310080	10	217	0	0	0	0	0	0	0	0
390050	6	94	0	0	6	126	0	0	4	38
410080	0	0	0	0	0	0	0	0	0	0
490050	0	0	0	0	0	0	0	0	0	0
910060	3	190	0	0	0	0	0	0	0	0
910090	0	0	0	0	5	161	0	0	6	45
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	0	0	0	0	0	0	0	0	0	0
990060	1	146	0	0	19	998	0	0	0	0
8463100080	5	41	0	0	1	6	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	11	1220	0	0	1	20	0	0	10	2516
900080	0	0	0	0	4	196	1	6	5	743
9800000002	13	263	0	0	13	153	0	0	4	1244
9900000002	0	0	0	0	22	31	7	6	198	40
Month Tot	62	2418	0	0	149	4164	8	12	246	5343
Y-T-D Tot	193	7987	0	0	633	18621	135	380	583	16552
NC YTD Tot	24	2143	0	0	15	365	2	20	43	749
C&F Month	70	2470	257	1397	299	5619	111	1906	4632	11719
C&F Y-T-D	216	8580	840	5452	1249	26057	741	8308	15974	39523
C&F NC YTD	26	2253	1	435	32	2270	40	4308	91	6609

Other Manufacturing Technology

1000000000	0	597	0	35	0	3864	0	843	0	1819
2000000000	0	378	0	0	0	4185	0	4703	0	834
2710003070	0	0	0	0	0	22	0	0	0	0
8428900010	2	108	0	0	5	71	0	0	0	0
8431390080	0	115	0	15	0	1054	0	32	0	14
8456101010	0	0	0	0	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	0	0
105000	0	0	0	0	0	0	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	1	114	18	383
106010	0	0	0	0	10	1072	6	442	3	317
106050	1	36	0	0	32	3419	1	207	5	136
200010	0	0	0	0	0	0	0	0	0	0
200050	1	168	0	0	9	385	0	0	4	236
300000	0	0	0	0	3	55	1	655	4	874
400000	0	0	0	0	0	0	0	0	0	0
510010	2	20	0	0	8	717	0	0	10	435
510090	0	0	0	0	4	361	0	0	1	2
590000	0	0	0	0	20	935	0	0	3	135
800000	18	51	0	0	41	557	5	153	7	43
8479899040	0	0	0	0	33	37	0	0	0	0
908040	0	6	0	0	0	46	0	0	0	91
8537100030	0	0	0	0	26	3	1	2	22	128
9024100000	0	28	0	0	0	2	0	0	0	37
9031100000	0	0	0	0	0	7	0	0	0	65
300000	0	0	0	0	0	0	0	0	0	0
9032810020	0	0	0	0	5	23	0	0	0	0
810060	0	0	0	0	0	0	0	0	262	32

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
April 90

Metal Forming

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	6	1260	0	0	0	0	0	0	0	0
8462100030	1	96	0	0	0	0	0	0	0	0
100050	13	1923	2	56	0	0	0	0	0	0
210080	27	1272	0	0	0	0	0	0	0	0
290030	3	89	0	0	2	44	0	0	0	0
290040	0	0	0	0	0	0	0	0	4	92
290050	10	499	0	0	0	0	0	0	8	275
310080	0	0	0	0	0	0	0	0	0	0
390050	19	125	0	0	0	0	0	0	0	0
410080	2	372	0	0	0	0	0	0	0	0
490050	3	143	0	0	0	0	16	167	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	42	1898	0	0	0	0	0	0	0	0
990030	5	283	0	0	0	0	0	0	0	0
990035	2	2069	0	0	0	0	0	0	0	0
990045	11	314	0	0	0	0	0	0	0	0
990060	6	246	0	0	0	0	0	0	2	60
8463100080	0	0	0	0	0	0	0	0	0	0
200080	5	437	0	0	0	0	1	76	0	0
300080	90	2824	0	0	0	0	0	0	0	0
900080	5	196	0	0	0	0	2	354	0	0
9800000002	13	260	0	0	0	0	0	0	1	19
9900000002	97	21	0	0	0	0	18	12	50	75
Month Tot	360	14327	2	56	2	44	37	609	65	522
Y-T-D Tot	1444	59366	7	120	7	53	167	1509	360	2988
NC YTD Tot	186	14592	0	0	0	0	0	0	3	439
C&F Month	7132	94658	35	1077	98	2123	292	2919	519	1112
C&F Y-T-D	22483	361215	1165	6923	382	7826	979	9652	1179	6983
C&F NC YTD	2621	278891	47	3563	78	4191	34	809	9	1884

Other Manufacturing Technology

1000000000	0	13067	0	131	0	921	0	184	0	2439
2000000000	0	4738	0	3	0	90	0	201	0	6
2710003070	0	0	0	0	0	0	0	0	0	0
8428900010	58	2843	0	0	0	0	0	0	6	244
8431390080	0	413	0	208	0	0	0	6	0	157
8456101010	14	2681	0	0	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	0	0
105000	0	0	0	0	0	0	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	0	0	0	0
106010	45	2565	0	0	0	0	0	0	0	0
106050	99	13548	3	265	7	117	0	0	0	0
200010	6	755	0	0	0	0	1	124	0	0
200050	7	963	0	0	0	0	0	0	0	0
300000	6	1116	0	0	0	0	2	281	0	0
400000	2	237	0	0	0	0	0	0	0	0
510010	56	6735	0	0	0	0	0	0	0	0
510090	4	905	0	0	0	0	0	0	1	2
590000	12	1122	0	0	0	0	0	0	0	0
800000	1152	3046	0	0	0	0	12	19	13	4
8479899040	5069	3111	59	6	0	0	0	0	16	720
908040	0	1636	0	0	0	5	0	0	0	64
8537100030	1216	4978	0	0	0	0	0	0	0	0
9024100000	0	351	0	0	0	0	0	0	0	93
9031100000	0	340	0	0	0	0	0	0	0	0
300000	0	188	0	0	0	0	0	0	0	0
9032810020	135	31	5500	24	0	0	0	0	0	0
810060	840	6	0	0	0	0	0	0	933	174

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
April 90

Metal Forming

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	1	182	0	0	0	0	1	97
8462100030	0	0	0	0	0	0	32	820	0	0
100050	1	411	1	5	6	86	2	13	4	37
210080	1	21	0	0	1	27	12	518	3	26
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	2	14	0	0	0	0	0	0
290050	6	399	5	24	2	72	10	383	21	67
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	1	4	9	79	2	42
410080	1	404	1	76	0	0	21	736	3	721
490050	3	279	0	0	0	0	39	318	0	0
910060	0	0	1	650	0	0	1	1058	0	0
910090	2	509	5	413	1	30	9	212	0	0
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	0	0	0	0	0	0	8	108	0	0
990060	0	0	3	59	4	13	2	63	0	0
8463100080	0	0	0	0	0	0	1	293	0	0
200080	0	0	2	43	0	0	0	0	0	0
300080	4	689	0	0	3	67	23	1157	0	0
900080	2	9	2	28	1	3	2	99	0	0
9800000002	0	0	11	14	35	85	2	19	0	0
9900000002	47	9	791	266	0	0	58	53	461	98
Month Tot	67	2731	825	1774	54	386	231	5929	495	1088
Y-T-D Tot	301	9680	2541	4227	339	4334	876	20871	1359	5453
NC YTD Tot	10	1469	5	807	5	142	92	7240	21	2243
C&F Month	232	9608	54251	12852	482	9356	5321	28747	14347	8828
C&F Y-T-D	963	33946	216131	47207	2453	39965	8229	102718	38090	28506
C&F NC YTD	164	9567	371	11294	292	22679	389	48613	194	10308

Other Manufacturing Technology

1000000000	0	2807	0	1262	0	3576	0	11891	0	2549
2000000000	0	763	0	5145	0	626	0	10536	0	1598
2710003070	0	1	0	0	0	0	0	0	0	0
8428900010	4	209	0	0	12	655	15	497	8	383
8431390080	0	2365	0	114	0	1262	0	834	0	1303
8456101010	1	12	0	0	0	0	0	0	0	0
101020	0	0	0	0	1	14	3	125	0	0
105000	1	348	0	0	3	113	0	0	7	1005
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	36	77	0	0
106010	1	85	9	367	0	0	0	0	28	1075
106050	14	645	2	42	4	114	36	9454	54	2396
200010	1	68	1	20	0	0	7	824	0	0
200050	0	0	3	248	15	119	36	3496	1	2
300000	0	0	0	0	0	0	4	473	2	746
400000	0	0	0	0	0	0	37	382	0	0
510010	0	0	0	0	0	0	0	0	3	398
510090	0	0	0	0	4	30	8	102	4	69
590000	1	383	0	0	13	15	2	47	1	51
800000	192	563	6	67	17	243	57	1655	6	372
8479899040	0	0	0	0	0	0	2	18	3	130
908040	0	87	0	17	0	310	0	544	0	9
8537100030	1	25	0	0	0	0	2	30	8	18
9024100000	0	35	0	4	0	166	0	168	0	142
9031100000	0	31	0	0	0	4	0	2	0	110
300000	0	17	0	0	0	349	0	22	0	23
9032810020	110	4	0	0	1380	9	162	8	12361	159
810060	0	0	2580	24	0	0	60	248	428	88

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
April 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Austria	98	2594	0	0	98	2594
Bulgaria	0	0	0	0	0	0
Czechoslovakia	13	110	0	0	13	110
Denmark	27	207	2	4	29	211
East Germany	23	65	0	0	23	65
Finland	4	21	9	743	13	763
Hungary	0	0	0	0	0	0
Ireland	1	3	0	0	1	3
Luxembourg	0	0	0	0	0	0
Netherlands	54	175	2	42	56	216
Norway	0	0	0	0	0	0
Poland	29	736	0	0	29	736
Portugal	0	0	1	22	1	22
Romania	0	0	0	0	0	0
USSR	2	20	0	0	2	20
Yugoslavia	43	244	0	0	43	244
Oth Europe	6	226	3	34	9	261
TOTAL	11189	54289	787	18794	11976	73083
NORTH AND CENTRAL AMERICA						
Barbados	0	0	0	0	0	0
Dominican Rep	0	0	0	0	0	0
Mexico	236	81	56	112	292	193
Oth N & C Am.	0	0	0	0	0	0
TOTAL	386	1537	205	4275	591	5812
SOUTH AMERICA						
Argentina	1	43	0	0	1	43
Chile	0	0	0	0	0	0
Colombia	0	0	0	0	0	0
Paraguay	0	0	0	0	0	0
Peru	0	0	0	0	0	0
Uruguay	0	0	0	0	0	0
Venezuela	3	326	0	0	3	326
Oth South Am.	0	0	0	0	0	0
TOTAL	261	1766	0	0	261	1766
OCEANIA						
Australia	1	76	1	97	2	173
New Zealand	0	0	0	0	0	0
Oth Oceania	0	0	0	0	0	0
TOTAL	1	76	1	97	2	173

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
April 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
China	13287	2048	416	31	13703	2079
Hong Kong	0	0	1	1	1	1
India	6	130	4	3	10	133
Indonesia	1	3	0	0	1	3
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	15	628	0	0	15	628
Malaysia	0	0	0	0	0	0
Pakistan	0	0	0	0	0	0
Philippines	0	0	0	0	0	0
Thailand	0	0	0	0	0	0
Oth Asia	0	0	0	0	0	0
TOTAL	73636	97320	1610	16236	75246	113556
AFRICA						
Ghana	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Niger	0	0	0	0	0	0
South Africa	0	0	0	0	0	0
Swaziland	2	3	0	0	2	3
Oth Africa	0	0	0	0	0	0
TOTAL	2	3	0	0	2	3

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* Includes code 8456301030, Traveling wire electro-discharge machines, non-NC.

RELEASED: June 27, 1990

U.S. IMPORTS - Metal Cutting Machine Tools - April 90

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456301010	Traveling wire electro-discharge machines, NC *	364	20978	91	4975
301050	Electro-discharge machines, n.e.c., NC	70	3869	21	1666
301070	Electro-discharge machines, n.e.c., non-NC	116	2601	22	485
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	823	66988	199	15685
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	48	10228	11	4071
100035	Horiz. mach. ctrs., ATC	289	65347	111	24540
100045	Mach. ctrs., n.e.c.	84	10785	23	4684
200010	Unit construction mach. (single station transfer), NC	13	1295	0	0
200090	Unit construction mach. (single station transfer), non-NC	0	0	0	0
300010	Multi-station transfer machines, NC	25	7799	17	4263
300090	Multi-station transfer machines, non-NC	43	9626	24	3929
8458110010	Horiz. lathes, multiple spindle, NC	100	15429	18	2690
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	852	59295	199	13910
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	214	28989	60	8593
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	22	5064	4	522
190030	Horiz. engine or toolroom lathes, non-NC	1421	13389	373	3442
190050	Automatic bar and/or chucking mach., single spindle, non-NC	465	8341	358	3093
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	62	3844	20	411
190090	Horiz. lathes, n.e.c., non-NC	522	5795	115	1717
911060	Vertical turret lathes, multiple spindle, NC	15	2450	2	296
911080	Vertical turret lathes, n.e.c., NC	9	2469	2	990
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	0	0	0	0
915070	Vertical lathes, excl. VTL's, n.e.c., NC	24	2956	2	170
991050	Vertical turret lathes, non-NC	57	1324	16	553
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	344	5265	94	893
8459100000	Way-type unit head machines	0	0	0	0
210080	Other drilling machines, NC	130	8724	29	1746
290040	Drilling machines, multiple spindle, non-NC	42	1148	2	23
290050	Drilling machines, radial, non-NC	165	1201	52	349
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	25	321	7	136
290090	Drilling machines, n.e.c., non-NC	135	4279	23	1341
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	2	297	0	0
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	26	2645	2	230
310070	Boring-milling mach., n.e.c., NC	17	657	5	21
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	9	675	1	148
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	31	1021	3	126
400040	Boring machines, vertical, NC	0	0	0	0
400050	Boring machines, vertical, non-NC	14	490	1	13
400070	Boring machines, n.e.c., NC	9	1296	2	900
400080	Boring machines, n.e.c., non-NC	77	2058	33	383
510080	Milling machines, knee type, NC	230	3766	114	1285
590030	Milling machines, knee type, non-NC	1307	8995	380	2437
610080	Milling machines, excl. knee type, n.e.c., NC	91	6032	16	2197
690050	Milling machines, profile, dup., or die sinking, non-NC	31	313	25	285
690070	Milling machines, bed type, non-NC	27	1032	6	261
690090	Milling machines, n.e.c., non-NC	221	6811	57	1228
700020	Threading or tapping machines, n.e.c., NC	62	3224	15	1002
700080	Threading or tapping machines, n.e.c., non-NC	61	1209	8	79
8460110080	Flat surface grinding mach., NC	67	3918	42	2164
190010	Flat surface grinding mach., recip.-table type, non-NC	332	4481	71	1098
190050	Flat surface grinding mach., n.e.c., non-NC	747	6745	235	1954
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	154	28354	41	7801
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	181	5368	57	1160
290030	Grinding mach., internal cylindrical, non-NC	33	3194	5	158
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	333	12236	83	2239
310080	Sharpening machines (tool & cutter grinding), NC	91	1643	26	364
390050	Sharpening machines (tool & cutter grinding), non-NC	293	3556	56	799
400060	Honing or lapping machines, NC	12	1302	2	328
400080	Honing or lapping machines, non-NC	71	1989	7	330
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	19	1151	4	458
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	480	13099	108	2198
8461100060	Planing machines, NC	0	0	0	0
100080	Planing machines, non-NC	1	5	0	0
200010	Shaping or slotting machines, NC	65	2295	0	0
200090	Shaping or slotting machines, non-NC	80	1141	8	26
300060	Broaching machines, NC	2	5118	0	0
300080	Broaching machines, non-NC	54	1253	37	336
401020	Gear cutting for bevel gears	0	0	0	0
401030	Gear hobbers	27	4287	12	2151
401040	Gear shapers	10	3012	2	769
401060	Gear cutting machines, n.e.c.	64	420	1	4
405050	Gear grinding or finishing for bevel gears	55	626	14	40
405070	Gear grinding or finishing machines, n.e.c.	28	8385	5	1225
500050	Sawing or cutting-off machines, NC	48	2886	2	1283
500090	Sawing or cutting-off machines, non-NC	682	9848	200	2103
9000000001	Metal cutting machine tools, n.e.c.	134	3466	21	602
9800000001	Used or rebuilt machine tools	1296	9607	832	1571
9900000001	Machine tools valued at less than $2,500	288076	31015	81041	8058
	Cutting Total			85475	154989
	Y-T-D Cutting Total	302129	580720		
	NC Y-T-D Cutting Total	3983	377464		

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - April 90

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	0	0	0	0	0	0	0	0	0	0
301050	0	0	0	0	0	0	0	0	0	0
301070	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	1	65	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	5	438	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	12	996
300090	0	0	0	0	0	0	0	0	2	833
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	2	323	0	0
110090	0	0	0	0	0	0	0	0	1	116
190030	0	0	88	538	5	57	0	0	0	0
190050	0	0	18	109	0	0	0	0	0	0
190070	0	0	0	0	0	0	1	35	0	0
190090	0	0	84	448	1	3	1	114	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	1	772	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	2	51	0	0
995090	0	0	25	172	2	6	2	22	1	8
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	2	18	0	0	0	0	5	79
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	2	10	0	0	1	1099
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	1	228
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	3	52	0	0	20	216
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	1	99
690090	0	0	0	0	0	0	0	0	17	144
700020	0	0	0	0	0	0	0	0	0	0
700080	6	45	0	0	1	5	0	0	0	0
8460110080	1	7	0	0	1	50	0	0	6	1141
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	3	9	0	0	1	20
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	17	106	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	10	207
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	1	3	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	0	0	3	69	5	16	16	102
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	7	20	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	0	0	0	0
401040	0	0	0	0	0	0	0	0	0	0
401060	0	0	0	0	1	4	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	0	0	0	0	1	70	1	129	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	36	102	21	233	0	0	48	224
9000000001	0	0	0	0	1	6	15	307	1	7
9800000001	0	0	0	0	9	282	1	4	4	78
9900000001	1	1	4	10	66	32	71	55	4239	779
Month Tot	8	53	257	1397	150	1456	103	1893	4386	6376
Y-T-D Tot	23	593	840	5452	616	7436	606	7928	15391	22972
NC YTD Tot	2	110	1	435	17	1905	38	4288	48	5860

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - April 90

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	41	3439	0	0	0	0	0	0	0	0
301050	12	887	0	0	0	0	0	0	0	0
301070	2	275	0	0	0	0	0	0	0	0
8457100015	126	11559	6	405	15	775	0	0	0	0
100025	9	1700	0	0	0	0	0	0	0	0
100035	73	20306	0	0	0	0	0	0	0	0
100045	1	263	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	5	3267	0	0	0	0	0	0	0	0
300090	1	221	0	0	0	0	0	0	0	0
8458110010	15	1940	0	0	0	0	0	0	0	0
110030	181	13153	0	0	0	0	0	0	0	0
110050	55	7953	0	0	0	0	0	0	0	0
110090	1	92	0	0	0	0	1	150	0	0
190030	1	53	20	203	29	347	0	0	0	0
190050	6	142	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	2	184	0	0	0	0	0	0	0	0
911060	1	253	0	0	0	0	0	0	0	0
911080	1	217	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	1	139	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	6	317	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	19	1177	1	97	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	4	30	0	0
290070	0	0	0	0	0	0	1	8	2	13
290090	7	60	0	0	0	0	0	0	7	39
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	1	148	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	2	900	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	14	127	0	0
590030	8	172	0	0	0	0	227	1392	0	0
610080	9	1803	0	0	3	124	0	0	0	0
690050	1	31	0	0	0	0	0	0	0	0
690070	1	35	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	4	46	0	0
700020	15	1002	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	1	235	0	0	0	0	0	0	0	0
190010	3	186	0	0	39	576	0	0	0	0
190050	0	0	0	0	10	256	1	254	0	0
210080	18	3200	0	0	0	0	0	0	0	0
290010	10	292	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	14	541	0	0	0	0	1	148	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	7	63	0	0	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	3	230	0	0	0	0	0	0	0	0
900060	2	284	0	0	0	0	0	0	0	0
900080	37	961	0	0	0	0	0	0	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	3	648	0	0	0	0	0	0	0	0
401040	1	177	0	0	0	0	0	0	0	0
401060	0	0	0	0	0	0	0	0	0	0
405050	14	40	0	0	0	0	0	0	0	0
405070	1	263	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	18	744	0	0	0	0	0	0	2	66
9000000001	1	43	0	0	0	0	1	6	0	0
9800000001	261	189	0	0	0	0	0	0	0	0
9900000001	5782	1014	0	0	0	0	0	0	443	472
Month Tot	6772	80332	33	1022	96	2079	255	2310	454	590
Y-T-D Tot	21039	301850	1158	6803	375	7773	812	8142	819	3995
NC YTD Tot	2435	264299	47	3563	78	4191	34	809	6	1445

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - April 90

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	39	1442	11	94	0	0	0	0	0	0
301050	6	393	0	0	3	387	0	0	0	0
301070	1	63	6	31	0	0	0	0	13	116
8457100015	0	0	11	687	33	1828	1	140	6	226
100025	0	0	1	76	0	0	1	2294	0	0
100035	0	0	6	762	9	175	22	1274	1	2022
100045	0	0	0	0	0	0	3	3525	14	458
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	3	586	0	0	0	0	18	2290	0	0
8458110010	0	0	0	0	0	0	3	750	0	0
110030	0	0	9	451	2	79	0	0	7	227
110050	0	0	0	0	1	152	1	90	1	74
110090	0	0	0	0	0	0	1	165	0	0
190030	0	0	97	763	42	543	0	0	91	938
190050	1	215	33	351	0	0	300	2275	0	0
190070	3	125	10	73	0	0	0	0	6	177
190090	4	565	0	0	14	374	0	0	9	30
911060	0	0	0	0	0	0	0	0	1	43
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	1	30	0	0	0	0
991050	1	416	0	0	8	9	0	0	5	77
995090	0	0	0	0	0	0	0	0	58	367
8459100000	0	0	0	0	0	0	0	0	0	0
210080	2	80	0	0	0	0	7	392	0	0
290040	0	0	0	0	0	0	0	0	2	23
290050	0	0	33	188	0	0	0	0	8	34
290070	0	0	2	18	0	0	2	97	0	0
290090	0	0	0	0	0	0	2	105	4	28
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	1	2	0	0	0	0	0	0
310070	0	0	1	3	0	0	4	19	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	3	126
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	1	13
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	1	7	0	0	8	102	1	5
510080	11	148	64	465	15	495	0	0	10	49
590030	0	0	87	520	1	3	0	0	57	351
610080	0	0	2	203	2	66	0	0	0	0
690050	0	0	0	0	0	0	0	0	24	254
690070	0	0	4	127	0	0	0	0	0	0
690090	0	0	12	65	5	593	0	0	19	380
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	1	29	0	0	0	0
8460110080	1	173	22	205	5	82	4	253	1	19
190010	0	0	12	72	0	0	17	265	0	0
190050	3	95	183	1149	4	64	2	7	28	102
210080	1	324	0	0	2	2282	20	1995	0	0
290010	6	338	1	26	8	154	4	168	11	76
290030	3	153	0	0	0	0	2	5	0	0
290050	3	453	5	64	3	58	46	734	1	35
310080	2	11	2	34	1	14	20	230	1	76
390050	15	168	7	49	10	57	13	417	3	41
400060	0	0	0	0	0	0	2	328	0	0
400080	0	0	0	0	3	82	1	18	0	0
900060	1	4	0	0	0	0	0	0	1	170
900080	3	187	8	48	6	30	10	509	20	276
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	1	6	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	36	316	1	20	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	8	1484	1	20
401040	0	0	0	0	0	0	1	592	0	0
401060	0	0	0	0	0	0	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	1	735	0	0	0	0	1	28	0	0
500050	0	0	0	0	0	0	1	1215	1	67
500090	1	10	14	45	0	0	28	436	32	242
9000000001	1	97	0	0	1	137	0	0	0	0
9800000001	4	64	501	39	30	796	20	115	2	3
9900000001	49	31	52280	4459	182	136	4515	475	13409	595
Month Tot	165	6877	53426	11078	428	8970	5090	22818	13852	7739
Y-T-D Tot	662	24266	213590	42981	2114	35631	7353	81847	36731	23053
MC YTD Tot	154	8097	366	10487	287	22537	297	41373	173	8065

Please see notes on last page of the metal forming section.